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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,113	04/14/2006	Phong Nguyen	8029-1082	7429
466 YOUNG & TH	7590 06/10/200 OMPSON	EXAMINER		
209 Madison St		SHEDRICK, CHARLES TERRELL		
Suite 500 ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			2617	
			MAIL DATE	DELIVERY MODE
			06/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Summary	10/576,113	NGUYEN, PHONG				
Office Action Summary	Examiner	Art Unit				
	CHARLES SHEDRICK	2617				
The MAILING DATE of this communication appoperiod for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
· <u> </u>	-					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-14 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
7) Claim(s) is/are objected to.	6) Claim(s) 1-14 is/are rejected.					
8) Claim(s) are subject to restriction and/or	election requirement					
are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukui EP 1353467 A1 in view of TR 25.858 v1.1.0, R1-02-0435,3GPP TSG RAN WG1 Meeting 23, hereinafter,"3GPP".

Consider claims 1 and 7, Fukui teaches a system and a method of Automatic Repeat request (ARQ) control in a High Speed Downlink Packet Access (HSDPA) communication system(e.g., see paragraphs 0003-0005 and paragraph 0010 see also figures 1 and 2), the method including:

transmitting control information from a first station to a second station(e.g., see paragraphs 0003-0005 and paragraph 0010 see also figures 1 and 2); commencing receipt of the control information at the second station(e.g., see paragraphs 0003-0005 and paragraph 0010 see also

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figures 1 and 2); checking whether the control information was received with error(e.g., see paragraphs 0003-0005 and paragraph 0010 see also figures 1 and 2); and if so, generating a negative acknowledgment (NACK) message for transmission to the first station(e.g., see paragraphs 0003-0005 and paragraph 0010 see also figures 1 and 2), wherein the control information error checking and acknowledgment message generating is performed at the second station (e.g., see paragraphs 0003-0005 and paragraph 0010 see also figures 1 and 2)

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However, Fukui does not specifically teach carrying out processing operations within radio interface layer 1.

In analogous art, 3GPP teaches HS-SCCH is a physical channel and the associated coding and decoding operations in HDSPA part of the physical channel specifications (Pg.13-15).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Fukui to include carry out processing operations within the radio interface layer for the purpose of efficiency. Fukui teaches that the generation of a NACK message immediately failed after a failed CRC check. If this CRC check is performed at the physical layer it would be obvious for a person of ordinary skill in the art to also generate a NACK within this layer. The only alternative to it would be to inform the MAC about the failed HS-SCCH decoding, the MAC layer should then command the physical layer to send a NACK message. This alternative would imply a clear waste of time and would add unnecessary complexity to the interlayer communication.

Consider claims 2 and 8 and as applied to claims 1 and 7, Fukui as modified by 3GPP teaches wherein the control information error checking is carried out by performing a cyclic redundancy check on the control information(e.g., see paragraphs 0003-0005 and paragraph Application/Control Number: 10/576,113 Page 4

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0010 see also figures 1 and 2).

Consider claims 3 and 9 and as applied to claims 1 and 7, Fukui as modified by 3GPP teaches wherein the control information error checking is carried out during receipt of an associated data packet(e.g., as a function of HDSPA see at least paragraphs 0003-0005).

Consider claims 4 and 10 and as applied to claims 1 and 7, Fukui as modified by 3GPP teaches terminating receipt of the associated data packet at the second station upon failure of the control information error checking by carrying out processing operations within radio interface layer 1(e.g., as a function of HDSPA see at least paragraphs 0003-0005, 3GPP provides processing at the physical layer and therefore claims 4 and 10 are rejected based on the motivation as noted in the independent claims 1 and 7).

Consider claims 5 and 11 and as applied to claims 4 and 10, Fukui as modified by 3GPP teaches wherein the control information is transmitted and received on a common control channel (e.g., see paragraphs 0003-0005 and paragraph 0010 see also figures 1 and 2).

Consider claims 6 and 12 and as applied to claims 1 and 7, Fukui as modified by 3GPP teaches transmitting the negative acknowledgment (NACK) message from the second station to the first station on the common control(e.g., see paragraphs 0003-0005 and paragraph 0010 see also figures 1 and 2)

Consider claims 13 and 14 and as applied to claims 2 and 8, Fukui as modified by 3GPP teaches wherein the control information error checking is carried out during receipt of an associated data packet(e.g., see paragraphs 0003-0005 and paragraph 0010 see also figures 1 and 2)

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to CHARLES SHEDRICK whose telephone number is (571)272-

8621. The examiner can normally be reached on Monday thru Friday 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Harper Paul can be reached on (571)-272-7605. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VINCENT P. HARPER/

Supervisory Patent Examiner, Art Unit 2617

/Charles Shedrick/

Examiner, Art Unit 2617

June 5, 2008